

MULTILAYER CERAMIC SUBSTRATE
AND MANUFACTURING METHOD THEREFOR

ABSTRACT OF THE DISCLOSURE

A multilayer ceramic substrate three-dimensionally including functional elements is provided. The functional elements, for example, a capacitor element, an inductor element or a resistor element, are prepared using plate-like sintered plates produced by firing ceramic functional material beforehand. These functional elements are included in an unsintered composite laminate. The unsintered composite laminate is provided with green layers for the substrate, restriction layers including sintering-resistant materials, and wiring conductors, and when it is fired, the green layers for substrate are prevented from shrinking in the direction of primary faces due to the function of the restriction layers. Therefore, the unsintered composite laminate can be fired without problems while the functional elements are included, and mutual diffusion does not occur between the functional elements and the green layers for substrate, so that the characteristics of the functional elements can be maintained even after firing.

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